

DON'T SHIP A PSA, PBE, OR EEBD

(CONTAINS A CHEMICAL OXYGEN GENERATOR)

WITHOUT A DOT APPROVAL

A CHEMICAL DXYGEN GENERATOR IS
A DEVICE THAT RELEASES DXYGEN
THROUGH A CHEMICAL
REACTION AND IS A
HAZARDOUS MATERIAL

WHEN
INITIATED, ITS
OUTSIDE
SURFACE CAN
REACH A
TEMPERATURE
OF 500° F
(260°C) AND
SET FIRE TO COMBUSTIBLE
MATERIALS IN CONTACT WITH

- THE OXYGEN IT RELEASES INTENSIFIES OR FEEDS A FIRE.
- T MAY NOT BE SHIPPED ON PASSENGER AIRCRAFT.
- IT MAY BE SHIPPED ON A
 CARGO ONLY AIRCRAFT (OR BY
 RAIL AND WATER) ONLY
 UNDER THE TERMS ON AN
 APPROVAL ISSUED BY THE
 US DEPARTMENT OF
 TRANSPORTATION
 (DOT).

OXYGEN
GENERATORS ARE
FOUND INSTALLED
ON IN PORTABLE
EQUIPMENT ON
AIRPLANES. MANY
AIRPLANES HAVE
OXYGEN
GENERATORS
INSTALLED IN
PASSENGER
SERVICE LINITS.

LOGATED IN THE OVERHEAD PANELS
OR SEAT BACKS, TO SUPPLY
SUPPLEMENTAL OXYGEN TO
PASSENGERS IN THE EVENT OF A
LOSS OF CABIN PRESSURE.

OXYGEN GENERATORS ARE ALSO FOUND INSTALLED IN PORTABLE EQUIPMENT SUCH AS PROTECTIVE BREATHING EQUIPMENT (PBE).

EMERGENCY ESCAPE BREATHING DEVICE (EEBD) OR SMOKE HOODS. THESE PERSONAL COMPACT OXYGEN UNIT ARE USED BY CREWMEMBER WHO NEED TO BE ABLE TO MOVE ABOUT THE CABIN DURING AN EMERGENCY.

WHEN REQUIRED
ABOARD THE
AIRCRAFT IN
ACCORDANCE WITH
FAA
AIRWORTHINESS
REGULATIONS,
THESE
GENERATORS ARE
NOT SUBJECT TO



DOT'S HAZARDOUS MATERIALS
REGULATIONS (HMR 49 CFR 171180) WHETHER INSTALLED OR IN
PORTABLE EQUIPMENT. HOWEVER, THEY
HAVE A SPECIFIC SERVICES LIFE, AND
THEIR INSTALLATION AND MAINTENANCE
MUST BE TRACKED AND RECORDED
UNDER THE FAA REGULATIONS.

WHEN SHIPPED AS CARGO, INCLUDING COMPANY MATERIAL OR "COMAT", AN OXYGEN GENERATOR MUST MEET THE REQUIREMENTS IN THE HMR. THIS INCLUDES

- NEW OR USABLE UNITS SHIPPED FOR REPLACEMENT, AND
- SPENT OR EXPIRED UNITS THAT
 HAVE BEEN REMOVED FOR
 DISPOSAL

APPROVAL

A CHEMICAL OXYGEN GENERATOR THAT IS SHIPPED (BY ANY MODE OF TRANSPORTATION) WITH ITS MEANS OF INITIATION ATTACHED (EITHER EXPLOSIVE OR NON-EXPLOSIVE) MUST BE CLASSED AND APPROVED BY THE DOT'S RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION'S (RSPA) ASSOCIATE



U.S. Department of Transportation

Federal Aviation Administration

Research and Special Programs Administration

THIS APPROVAL WILL SPECIFY THAT THE DXYGEN GENERATOR MUST INCORPORATE AT LEAST TWO POSITIVE MEANS OF PREVENTING UNINTENTIONAL ACTUATION OF THE GENERATOR.

- ANY CHANGE TO THE GENERATOR (SUCH AS BY ALTERING THE MEANS OF INITIATION) OR TO THE PACKING SPECIFIED IN THE APPROVAL, REQUIRES THE ISSUANCE OF A NEW APPROVAL BEFORE THE GENERATION MAY BE TRANSPORTED.
- AIR SHIPMENTS

 (ONLY CARGO

 AIRCRAFT

 PERMITTED) THE

 APPROVAL MUST

 AUTHORIZE AIR

 SHIPMENT. THE

 GENERATORS MUST

 BE IN THE

 PACKAGING

 PREPARED AND

 ORIGINALLY



OFFERED FOR TRANSPORTATION BY THE APPROVAL OFFICER. A NEW APPROVAL MUST BE OBTAINED IF THE PACKAGING IS ALTERED IN ANY WAY (EVEN OPENING AND RESEALING IT).

HIGHWAY, RAIL OR WATER SHIPMENTS - THE

GENERATORS NEED NOT BE IN THE ORIGINAL

PACKAGING USED BY THE APPROVAL HOLDER, SO

LONG AS THE PACKAGING USED BY A RESHIPPER

MEET ALL THE CONDITIONS OF THE APPROVAL.

THE PROCEDURES FOR APPLYING FOR AN APPROVAL OF A CHEMICAL OXYGEN GENERATOR ARE SET FORTH IN 49 CFR PART 107, Subpart H (BEGINNING AT 107.701). APPLICATIONS SHOULD INCLUDE A DETAILED DRAWINGS (IF APPLICABLE), AND COPIES OF ANY PREVIOUS APPROVALS.

IN A SAFETY ADVISORY NOTICE PUBLISHED IN THE FEDERAL REGISTRATION ON DECEMBER 13, 1996 (61 FED. REG. 65479), RSPA EXPLAINED THAT THE HMR APPLY TO AN AIR CARRIER'S TRANSPORTATION OF COMAT, INCLUDING REPLACEMENT ITEMS, BUT ALLOW THE USE OF SPECIFIED PACKAGINGS FOR CERTAIN AIRCRAFT SPARES AND SUPPLIES. THIS LIMITED EXCEPTION DOES NOT ALLOW AN AIR CARRIER TO TRANSPORT REPLACEMENT CHEMICAL DXYGEN GENERATORS WITHOUT OBTAINING THE REQUIRED APPROVAL. SEE "COMAT FACT" ON THE NEXT PAGE.

SHIPPING REQUIREMENTS

ANY PERSON WHO OFFERS FOR TRANSPORTATION A CHEMICAL OXYGEN GENERATOR (INCLUDING A PSU, PBE, EEBD, OR SMOKE HOOD OR OTHER ITEM OF EQUIPMENT CONTAINING A CHEMICAL OXYGEN GENERATOR) MUST:

- ENSURE THAT THE GENERATOR IS COVERED BY

 AN APPROVAL AND PACKAGED AND OFFERED

 IN CONFORMANCE WITH THE CONDITIONS OF

 THE APPROVAL.
 - MARK THE DUTSIDE OF THE

 PACKAGE, IN ACCORDANCE WITH THE

 HMR, WITH THE PROPER SHIPPING NAME

 "Oxygen Generator, Chemical, 5.1,

 UN3356, II," AND THE APPROVAL NUMBER

 (CA***); AFFIX THE REQUIRED

 "OXIDIZER" AND CARGO AIRCRAFT

 ONLY" (WHEN OFFERED FOR AIR TRANSPORT)

 LABELS TO THE OUTSIDE OF THE PACKAGE, IN

 ACCORDANCE WITH THE HMR.
- PROVIDE THE CARRIER WITH A SHIPPER
 CERTIFICATION PREPARED AND SIGNED IN
 ACCORDANCE WITH THE HMR.
- MAINTAIN A COPY OF THE APPROVAL AT EACH FACILITY WHERE THE CHEMICAL OXYGEN GENERATOR IS PREPARED FOR TRANSPORTATION.
- TRAIN ITS EMPLOYEES AS REQUIRED BY THE HMR.

QUESTIONS CONCERNING

APPROVALS OR EXEMPTIONS FOR

CHEMICAL DXYGEN GENERATORS

SHOULD BE DIRECTED TO:

OFFICE OF HAZARDOUS MATERIALS

EXEMPTIONS AND APPROVALS

(202) 366-4512

FAX (202) 366-3308

E-MAIL: EA@RSPA.DOT.GOV

COMAT FACTS

ANSWERS TO YOUR HMR QUESTIONS

WHAT IS COMAT?

COMAT IS THE ABBREVIATION FOR AIR CARRIER COMPANY MATERIALS.

MANY OF THESE MATERIALS ARE REGULATED AS HAZARDOUS MATERIALS UNDER THE DOT HMR AND AS DANGEROUS GOODS UNDER INTERNATIONAL REGULATIONS.

WHAT TYPES OF COMAT ARE REGULATED ITEMS FOR INSTALLED EQUIPMENT, SERVICEABLE ITEMS, OR ITEMS REMOVED FOR SERVICING AND REPAIR MAY BE REGULATED AS HAZARDOUS MATERIALS/DANGEROUS GOODS. IT IS THE RESPONSIBILITY OF EACH AIRLINE TO DETERMINE WHETHER SUCH ITEMS ARE SUBJECT TO THE HMR/DANGEROUS GOODS REGULATIONS. SOME TYPICAL ITEMS INCLUDE **OXYGEN BOTTLES, LIFE RAFTS, PAINT AND** MOST OTHER CHEMICALS, FUELS, CHEMICAL **DXYGEN GENERATORS, UNPLUGGED FUEL** PUMPS, FIRE EXTINGUISHERS, AIRPLANE BATTERIES, UNDER SEAT LIFE VESTS, RAIN REPELLENT, RADIOACTIVE EXIT SIGNS, AUXILIARY POWER UNITS, FIRST AID KITS AND EMERGENCY SLIDES.

WHAT REGULATIONS APPLY TO THE TRANSPORT OF COMAT?

HAZARDOUS MATERIALS/DANGEROUS GOODS
CONSUMED OR USED IN THE AIRCRAFT
INDUSTRY, INCLUDED EXPENDABLE ITEMS OF
REPLACEMENT, ARE FULLY REGULATED AND
SUBJECT GOODS REGULATIONS. THE HMR
REQUIRE THE PROPER CLASSIFICATION,
DESCRIPTION, MARKING, LABELING, PACKAGING,
HANDLING, STOWAGE AND SECURING OF SUCH
ITEM AND TRAINING OF ALL HAZMAT
EMPLOYEES.

WHO MAY TRANSPORT COMAT?

ONLY AN AIRLINE WITH A HAZARDOUS MATERIAL/
DANGEROUS GOODS PROGRAM WHICH HAS BEEN
APPROVED BY THE FAA MAY TRANSPORT ITS OWN
MATERIALS AS COMAT. IF AN AIRLINE DOES NOT
HAVE AN APPROVED PROGRAM, IT MUST OFFER ITS
COMAT TO ANOTHER CARRIER FOR TRANSPORT AS
CARGO.

DO THE REGULATIONS PROVIDE ANY EXCEPTIONS FOR THE TRANSPORT OF COMAT?

INSTALLED EQUIPMENT CONTAINING HAZARDOUS MATERIALS OR HAZARDOUS MATERIALS REQUIRED ABOARD AN AIRPLANE TO MET AIRWORTHINENESS REQUIREMENTS OF THE FAA ARE EXPECTED FROM THE HMR. THERE IS LIMITED RELIEF PROVIDED IN 49 CFR 175.10(a)(2) FOR THE TRANSPORT OF COMAT IF IT IS BEING TRANSPORTED AS ITEMS OF REPLACEMENT. SPECIALIZED PACKAGING MAY BE USED IN PLACE OF REQUIRED PACKAGING IF IT PROVIDES AT LEAST AN EQUIVALENT LEVEL OF PROTECTION. AIRCRAFT BATTERIES MAY EXCEED THE 25 KG QUANTITY LIMIT IMPOSED ON OTHER BATTERIES FOR TRANSPORT ABOARD PASSENGER AIRCRAFT. ALL OTHER APPLICABLE HAZARDOUS MATERIALS REGULATIONS - SUCH AS PREPARATION OF SHIPPING PAPERS, MARKING AND LABELING OF PACKAGES, HANDLING, STOWAGE AND SECUREMENT AND TRAINING OF EMPLOYEES - STILL APPLY.

PENALTIES

FEDERAL LAW PROVIDES FOR

CIVIL PENALTIES UP TO

VIOLATION OF THE HMR.

AN INDIVIDUAL WHO

WILLFULLY VIOLATES A

PROVISION OF THE HMR MAY

BE FINED UP TO

\$250,000, BE IMPRISONED

FOR NOT MORE THAN 5

YEARS, OR BOTH; A

BUSINESS ENTITY MAY BE

FINED UP TO 500,000.

IF YOU HAVE QUESTIONS OR CONCERNS
REGARDING THE TRANSPORTATION OF OXYGEN
GENERATORS, COMAT, OR THE HMR, CONTACT
THE HAZARDOUS MATERIALS INFORMATION
CENTER:

1-800-HMR-4922

(1800-467-4922)

E-MAIL: INFOCNTR@RSPA.DOT.GOV

OR WRITE TO:

US DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
OFFICE OF HAZARDOUS MATERIALS STANDARDS
THE INFORMATION CENTER (DHM-10)
400 SEVENTH STREET, SW, WASHINGTON, DC
20590-0001

VISIT DOT'S HOMEPAGE ON THE
INTERNET TO VIEW THE HMR, COPIES OF
THE LATEST RULEMAKINGS, EXEMPTIONS,
CLARIFICATIONS OF THE LATEST
REGULATIONS, HAZMAT PUBLICATIONS
AND TRAINING SCHEDULES.

HTTP://HAZMAT.DOT.GOV HTTP://WWW.FAA.GOV

NEED HAZMAT PUBLICATIONS IN "PLAIN" ENGLISH?



TRAINING MATERIALS, FACT SHEETS,
NEWSLETTERS, AND OTHER SAFETY RELATED
INFORMATION ARE AVAILABLE FROM RSPA AT:

(202) 366-2301 FAX (202) 366-7342

E-Mail: Training@rspa.dot.gov

Official Business Penalty for Private Use \$300

DHM-50 400 Seventh St., S.W. Washington, DC 20590

Research and Special Programs Administration

U.S. Department of Transportation